

In the Drawings:

In compliance with the Examiner's requirements, Applicant submits a set of marked-up informal drawings with proposed added legends for various boxes in each drawing. This set of drawings is informal and the added legends should be helpful to the examination of the application by showing the actual device name of each box.

FIG. 5 as originally filed appears to have incorrect numerals and have been corrected in the proposed drawings. Specific details for corrections in FIG. 5 are as follows.

The box "34" should be labeled with a different numeral number because this box is described as a tunable laser on page 13, lines 10-11 of the original specification. Hence, Applicant proposes to remove the numeral "34" and label it as "tunable laser" as marked in red.

The box underneath the box originally labeled as "34" should be a base band Mach-Zehnder interferometer modulator according to the textual description on page 13, lines 10-11 of the original specification. Accordingly, this box is proposed to be labeled as "base band Mach-Zehnder interferometer modulator."

It appears that the box "77" is not explicitly described in text in the original specification. However, based on the description for FIGS. 5 and 6 on page 13 and the description on other implementations in the original specification, it can be readily inferred that the box "77" represents a bandpass filter that rejects a channel "L" having the label information and passes the signal channel "S" having data. Accordingly, the box "77" has been labeled as such and additional text has been proposed to add in the paragraph beginning on page 13, line 4 to reflect this.

Finally, the box originally labeled as "80" should be an optical combiner to combine the signal optical wave without the original label signal and the optical signal with the new label information produced by the base band Mach-Zehnder interferometer modulator. This can be readily inferred from the original specification. Since the numeral "80" is already designated as an optical modulator in FIG. 3(a), it is proposed that the numeral "80" be removed and replaced with a text label of "Optical Combiner" as marked in red in the amended FIG. 5.

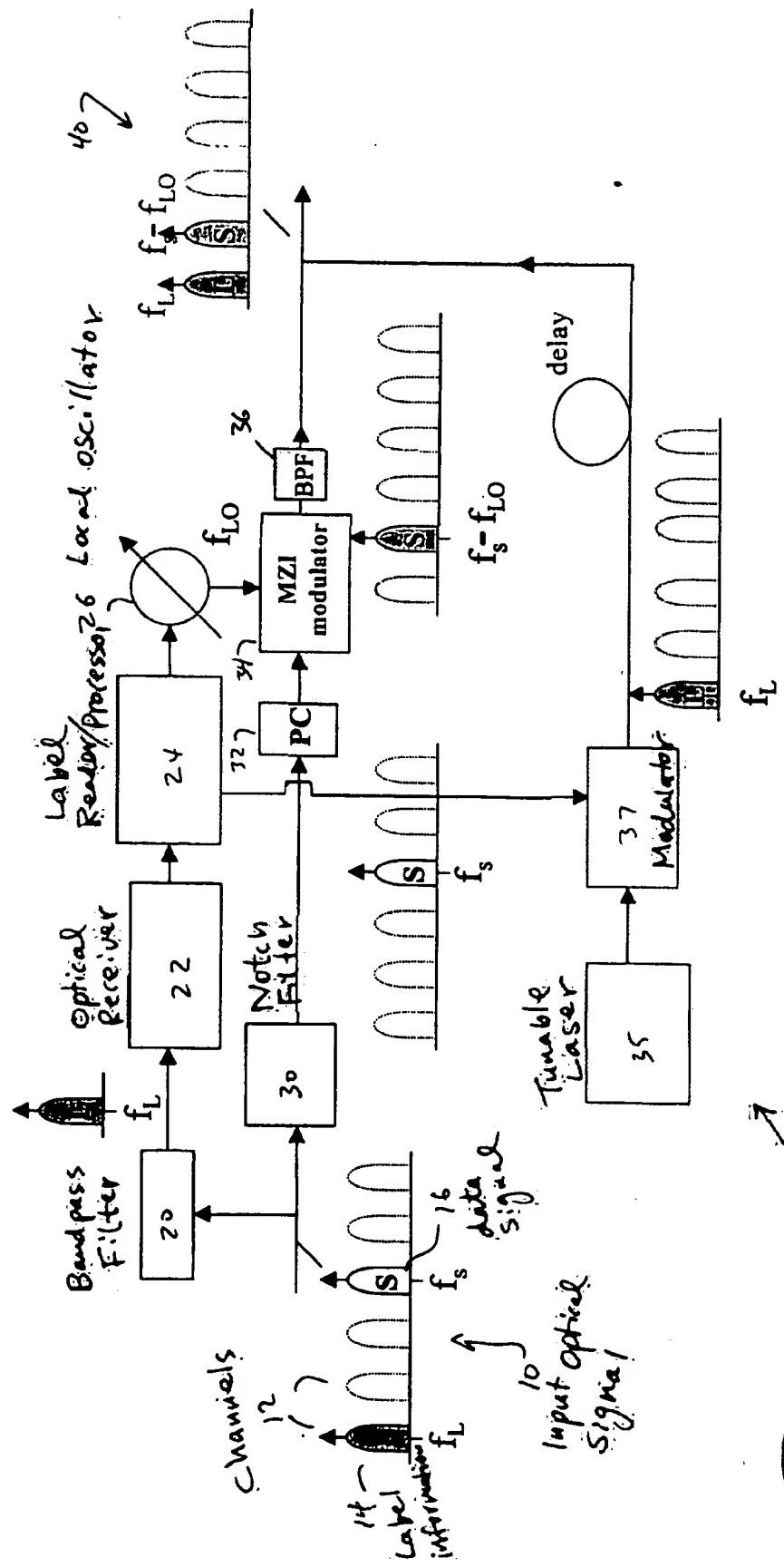
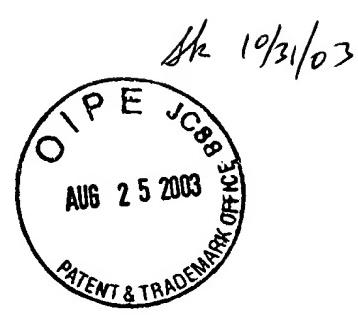


Fig. 1



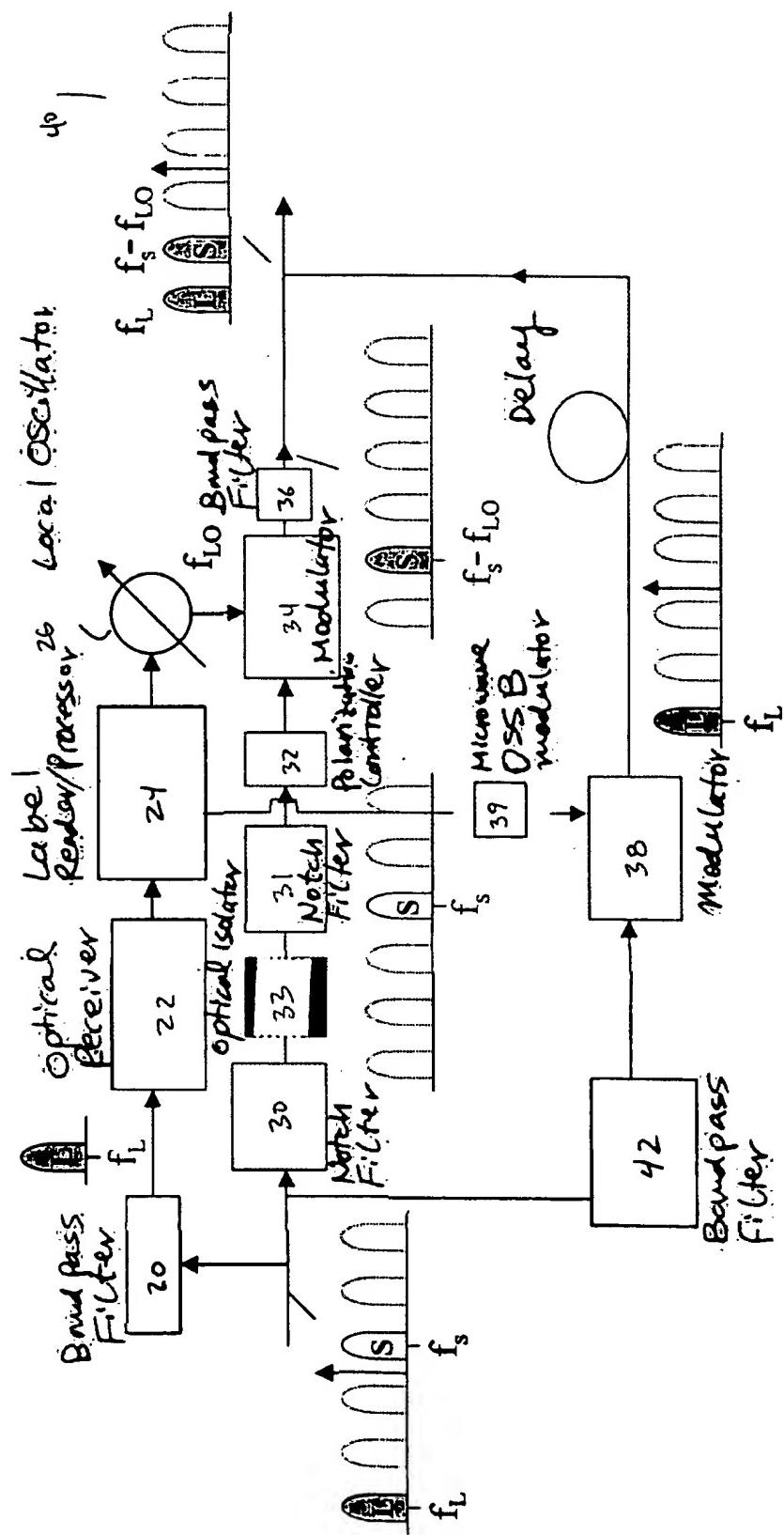


Fig. 2

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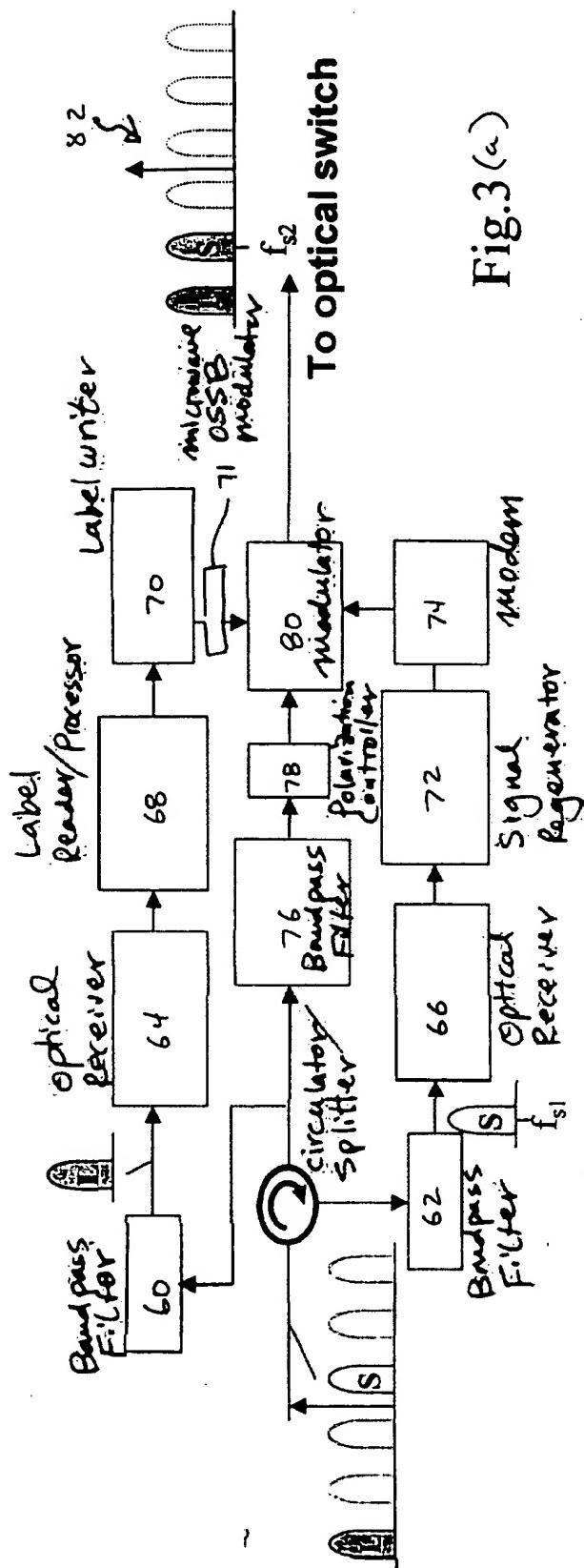


Fig. 3 (a)

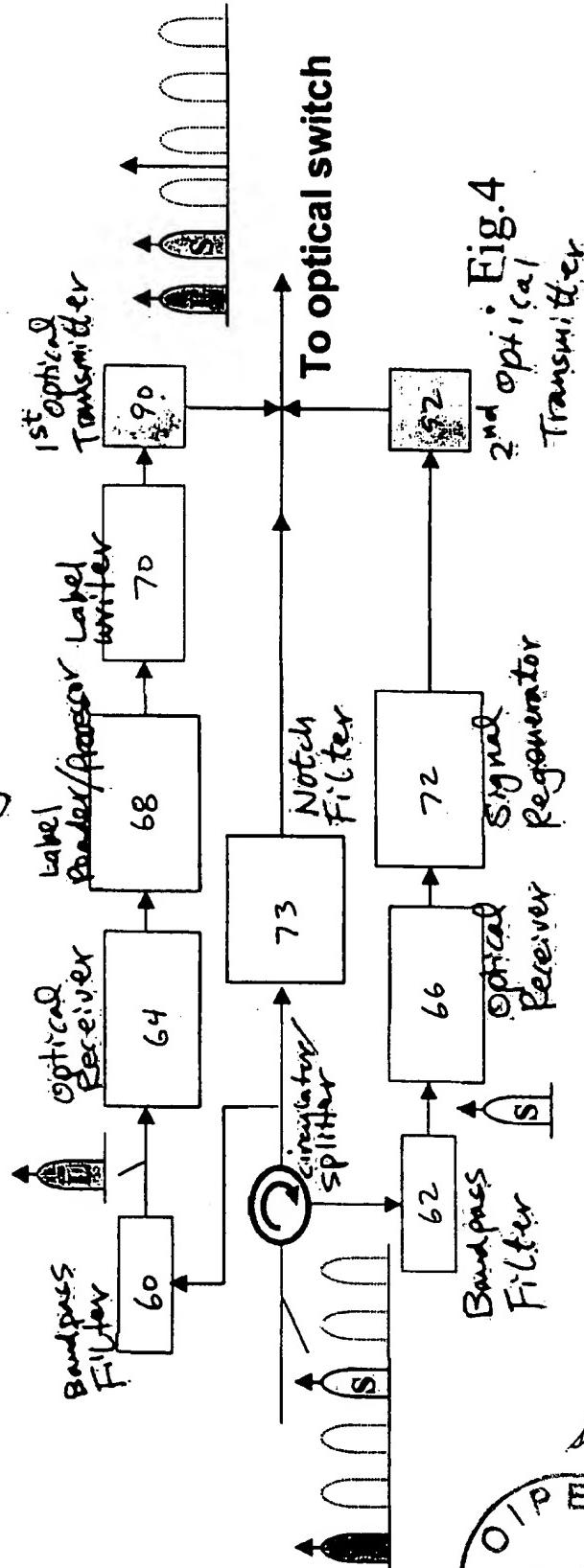


Fig. 4

2nd Optical Transmitter
Receiver Signal Regenerator

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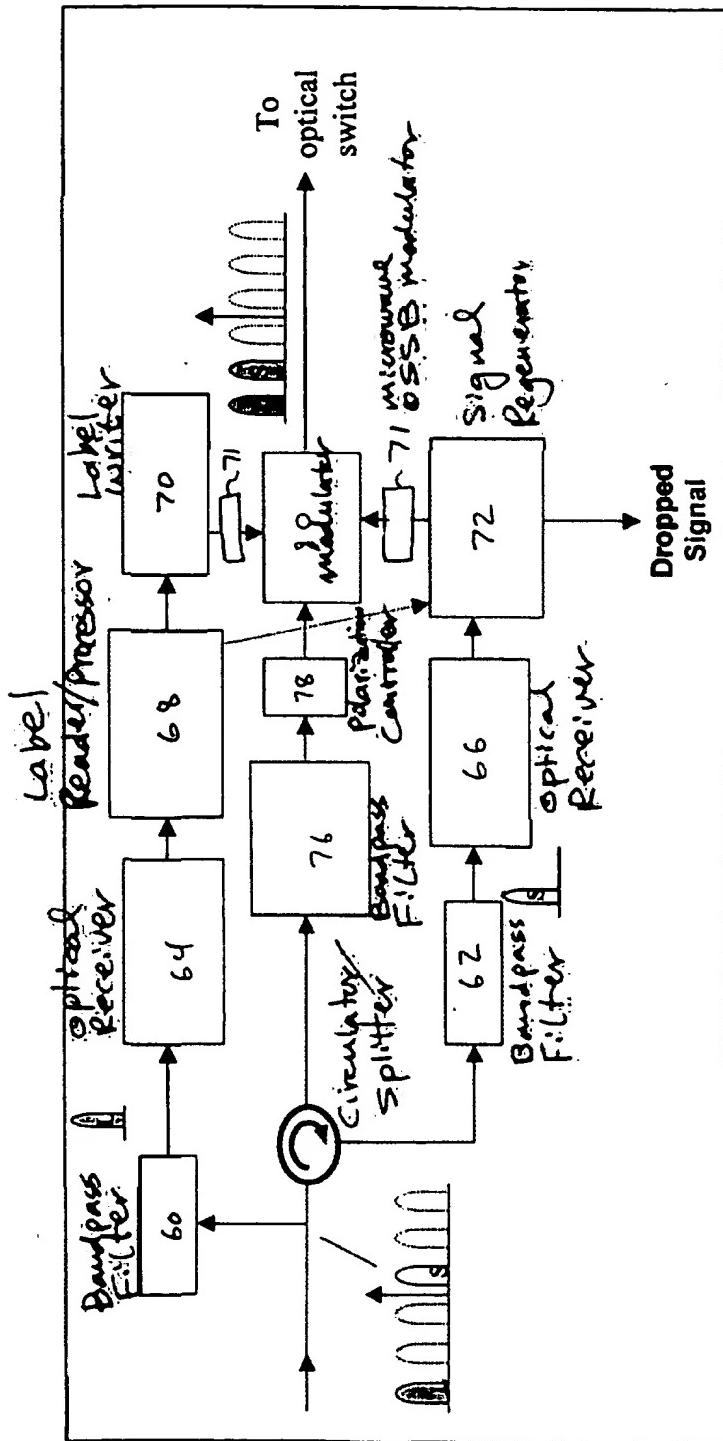


Fig.3(b)

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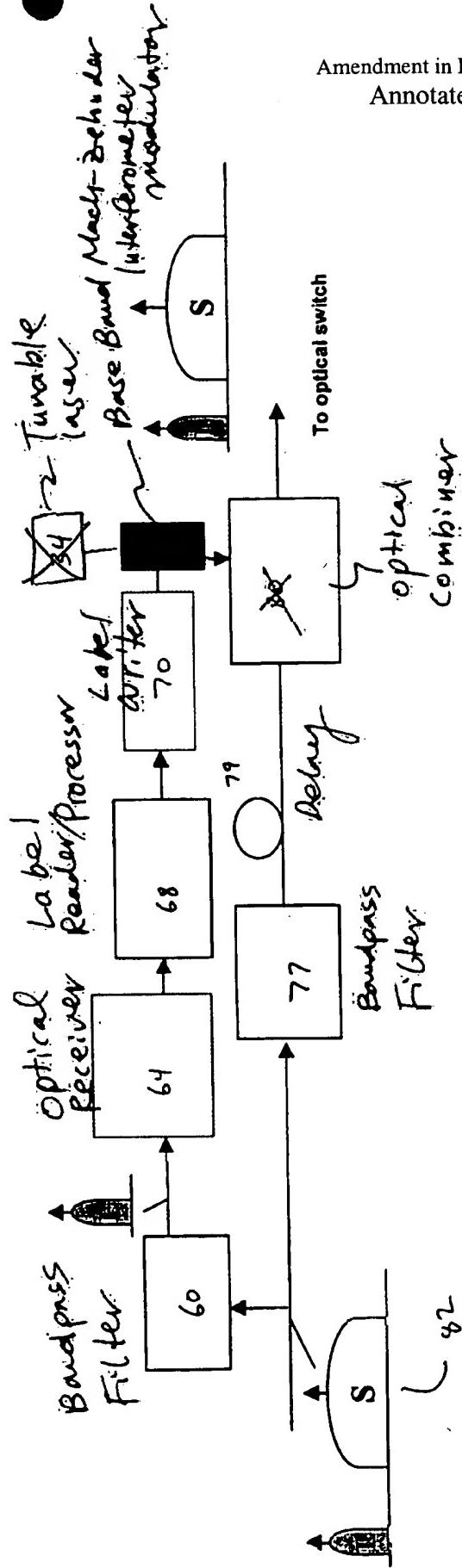
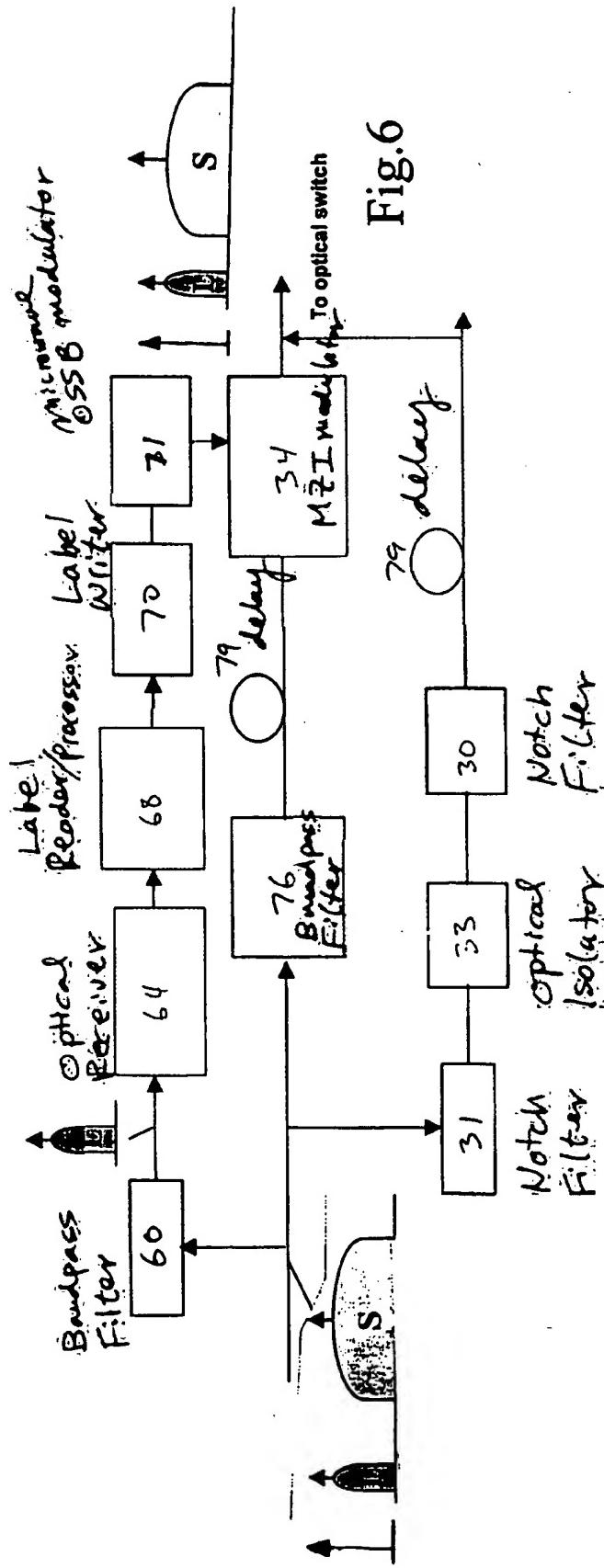


Fig.5





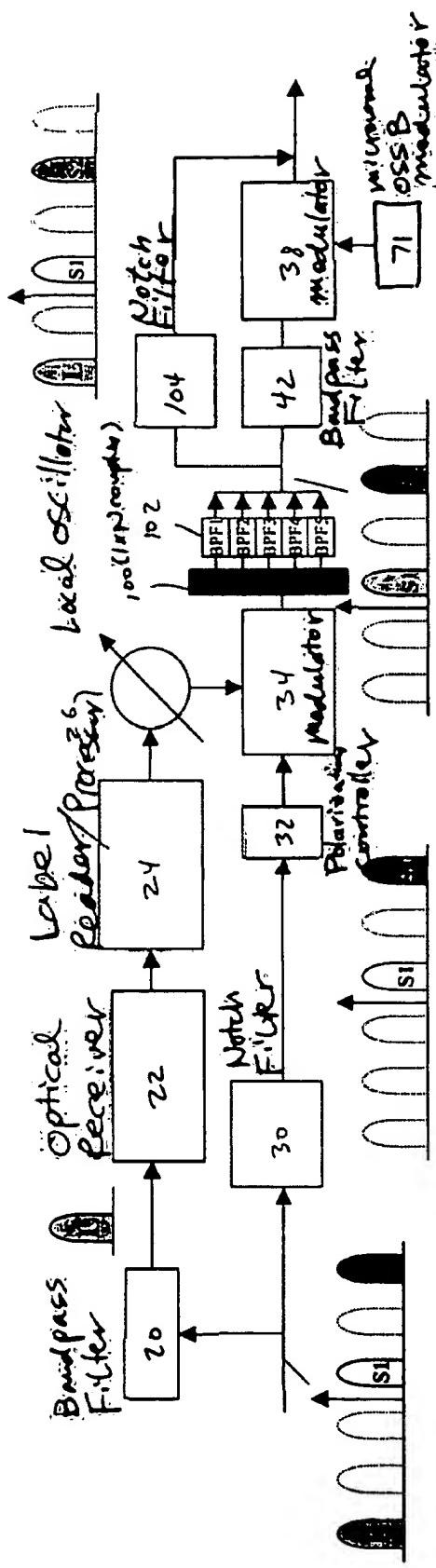


Fig. 7(a)

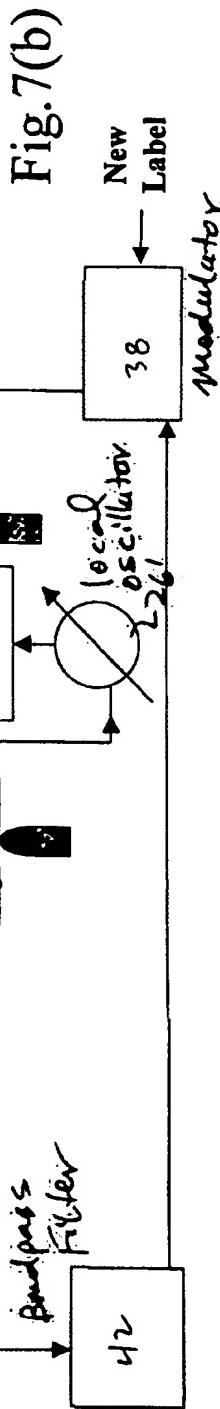
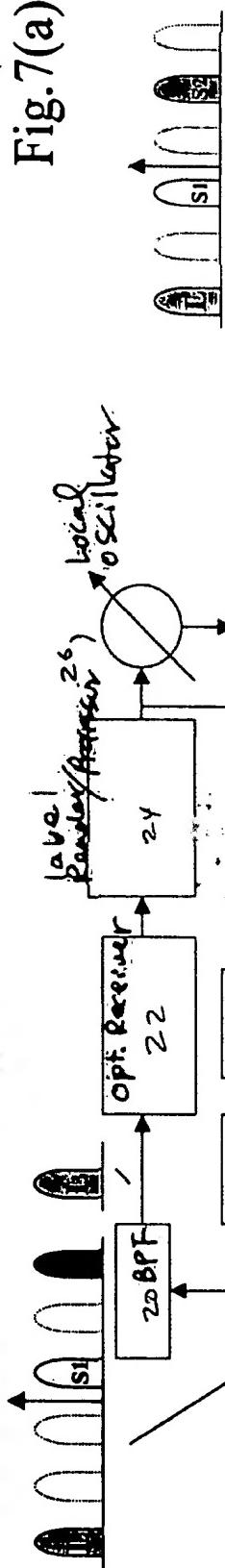


Fig. 7(b)

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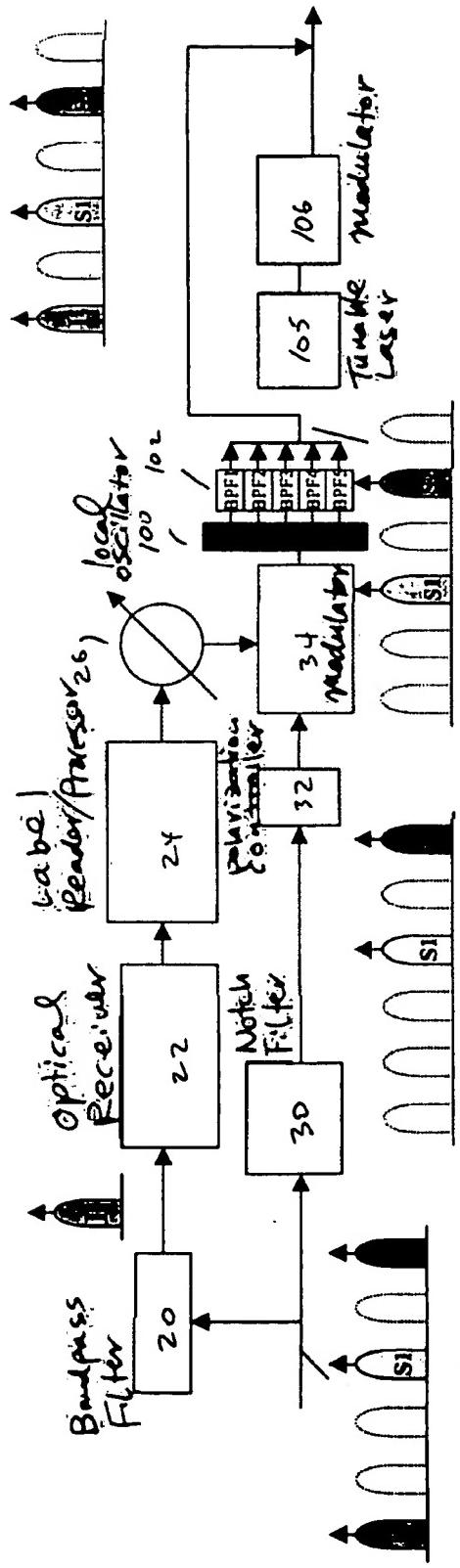


Fig. 7(c)

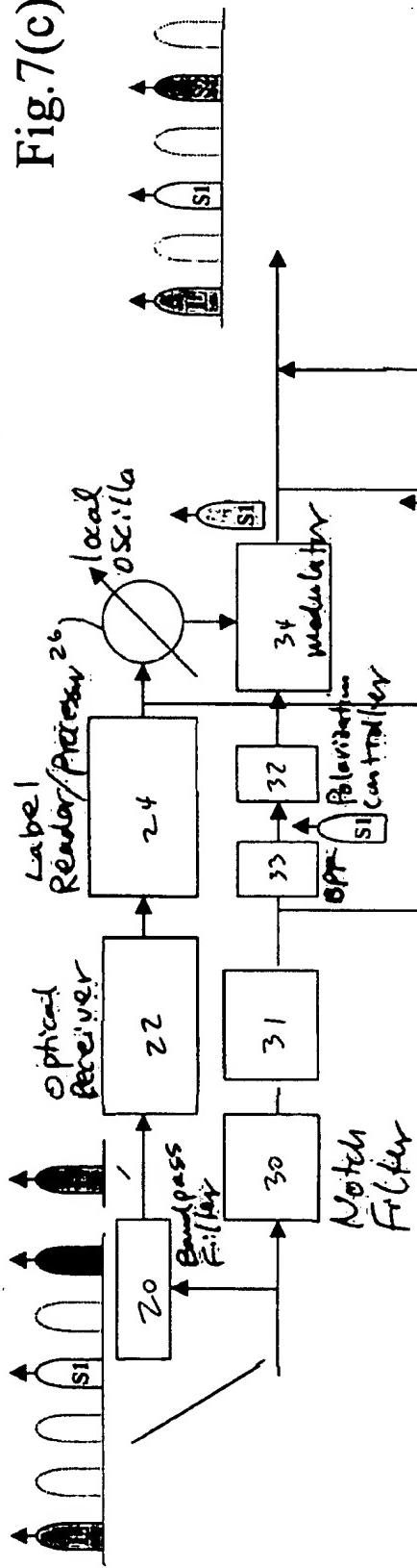
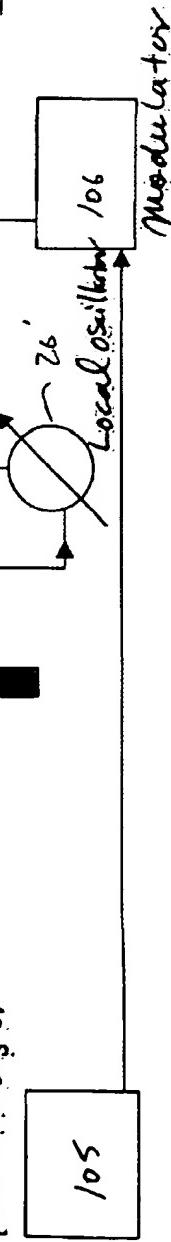


Fig. 7(d)



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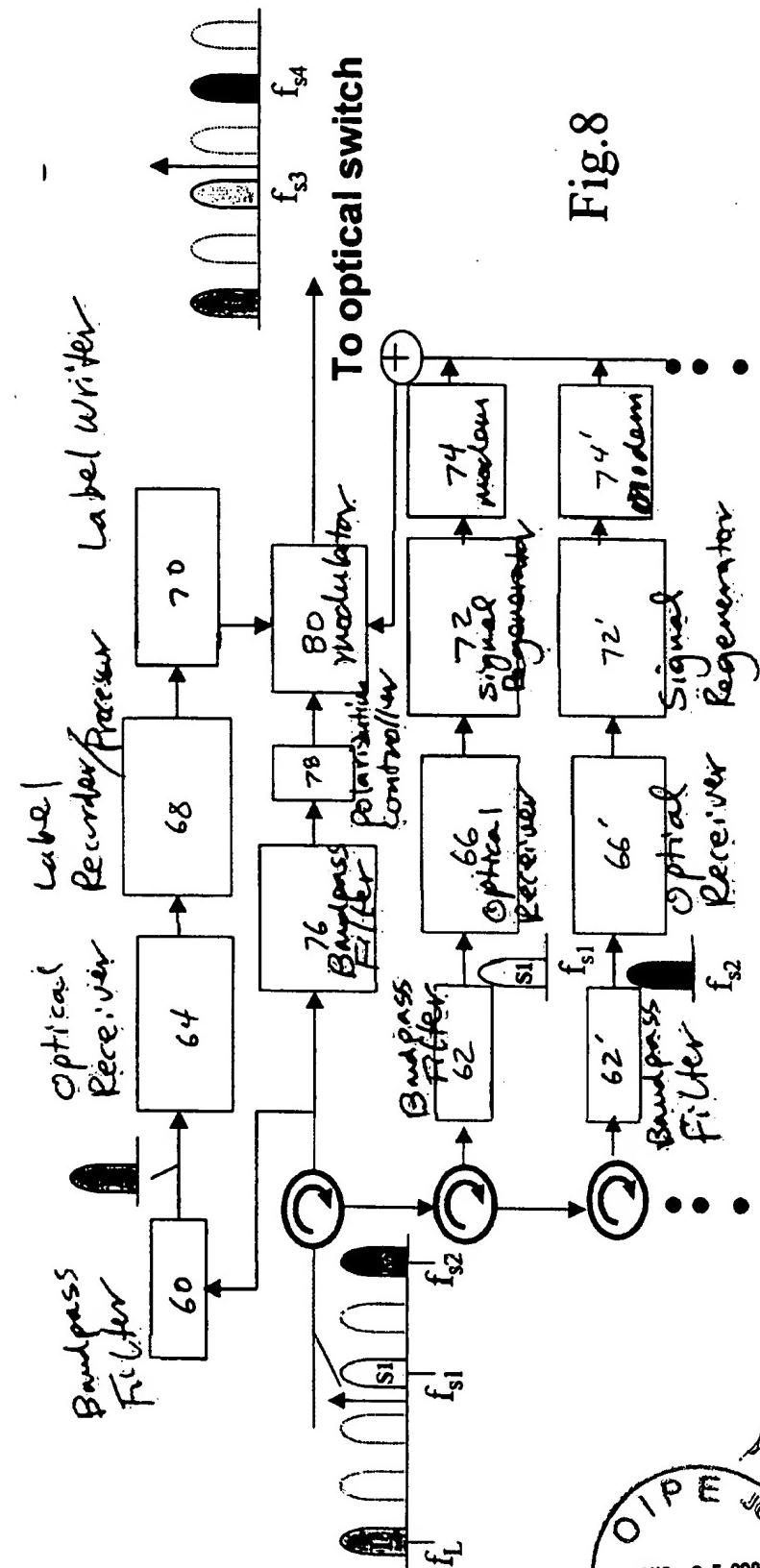


Fig. 8



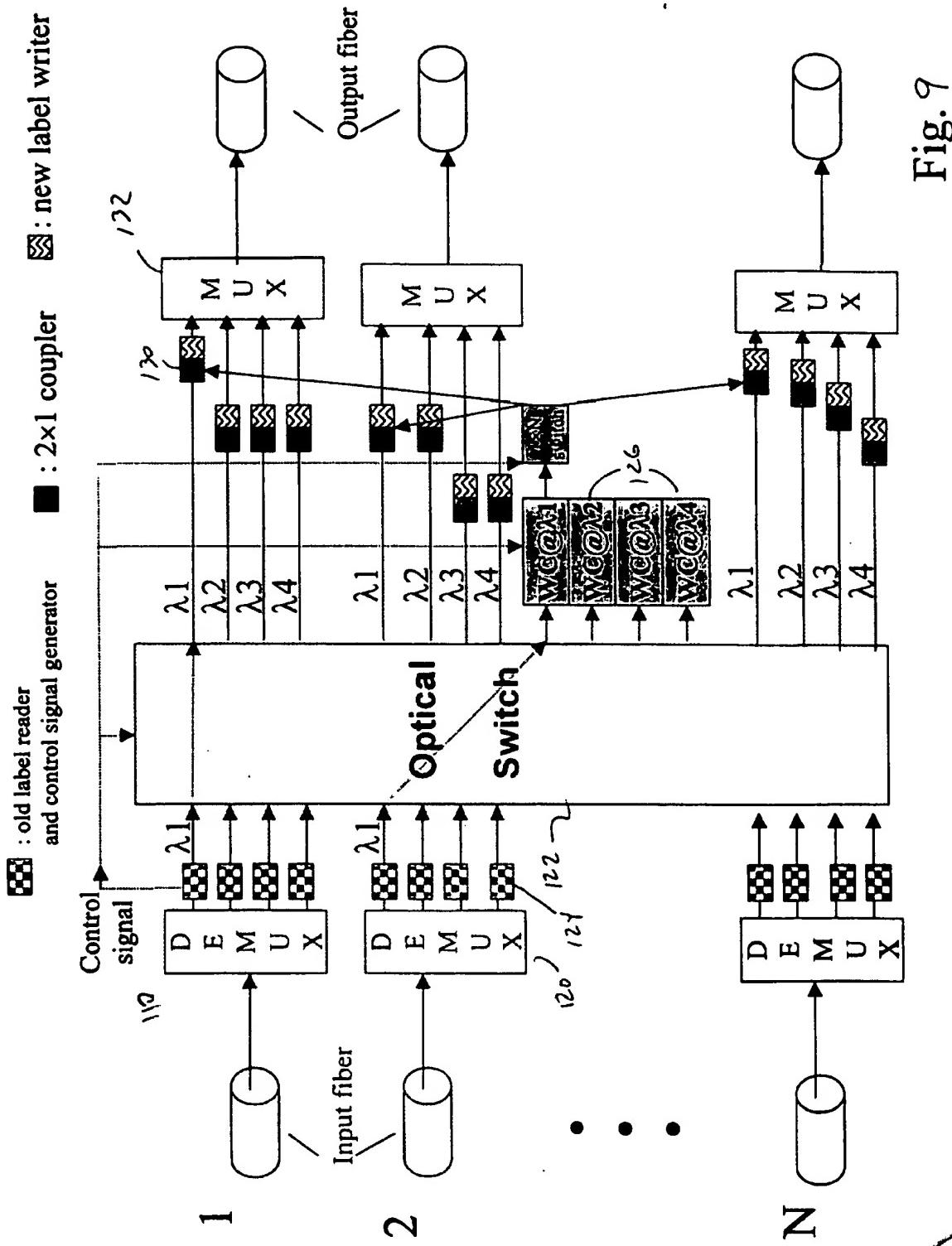


Fig. 9



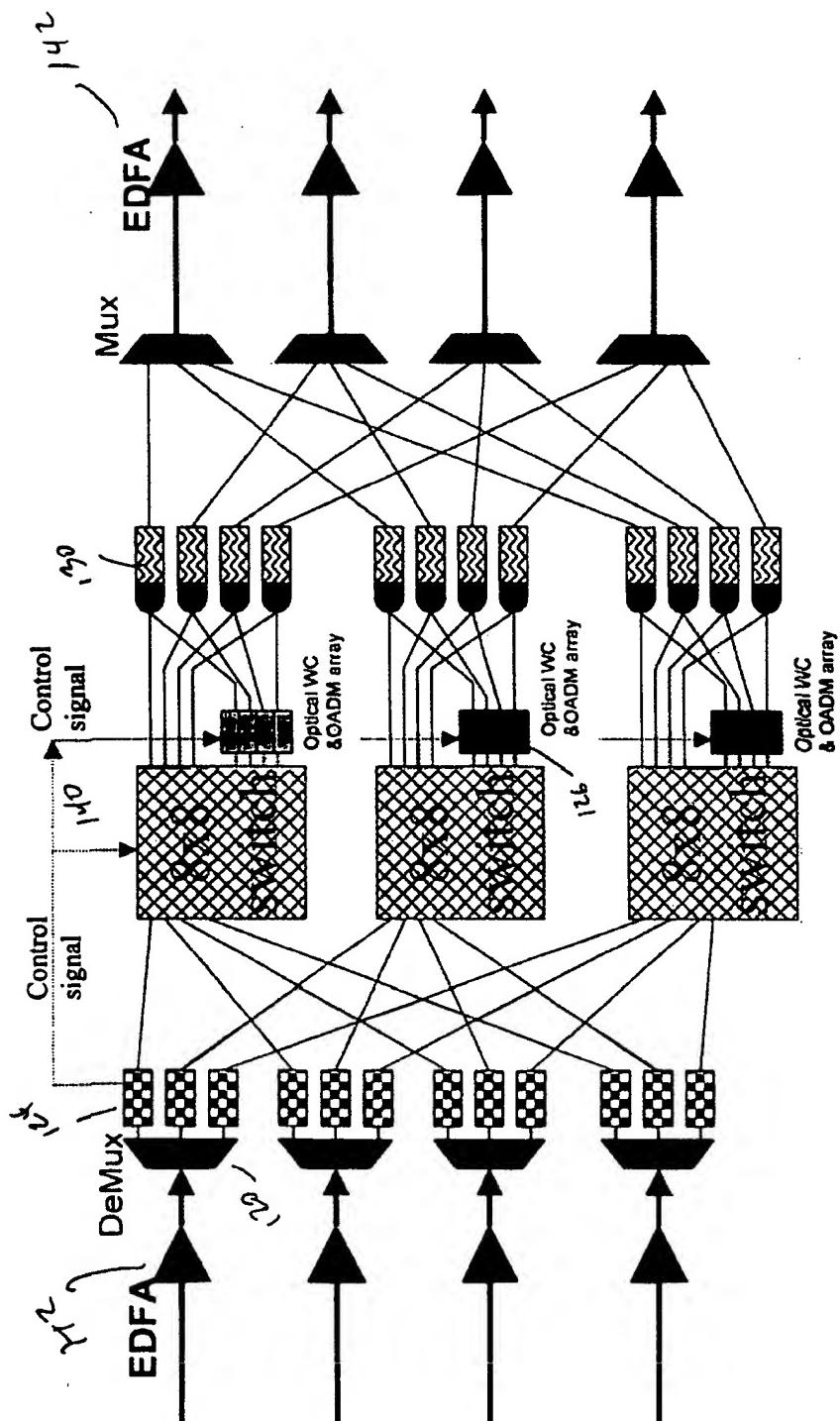


Fig. 8(b)
10

X=4



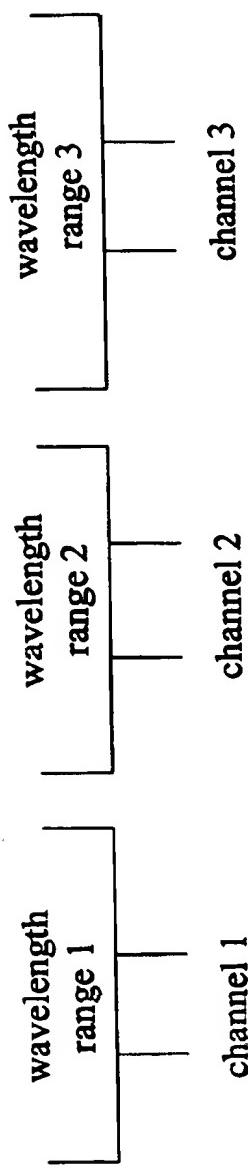


Figure 11a



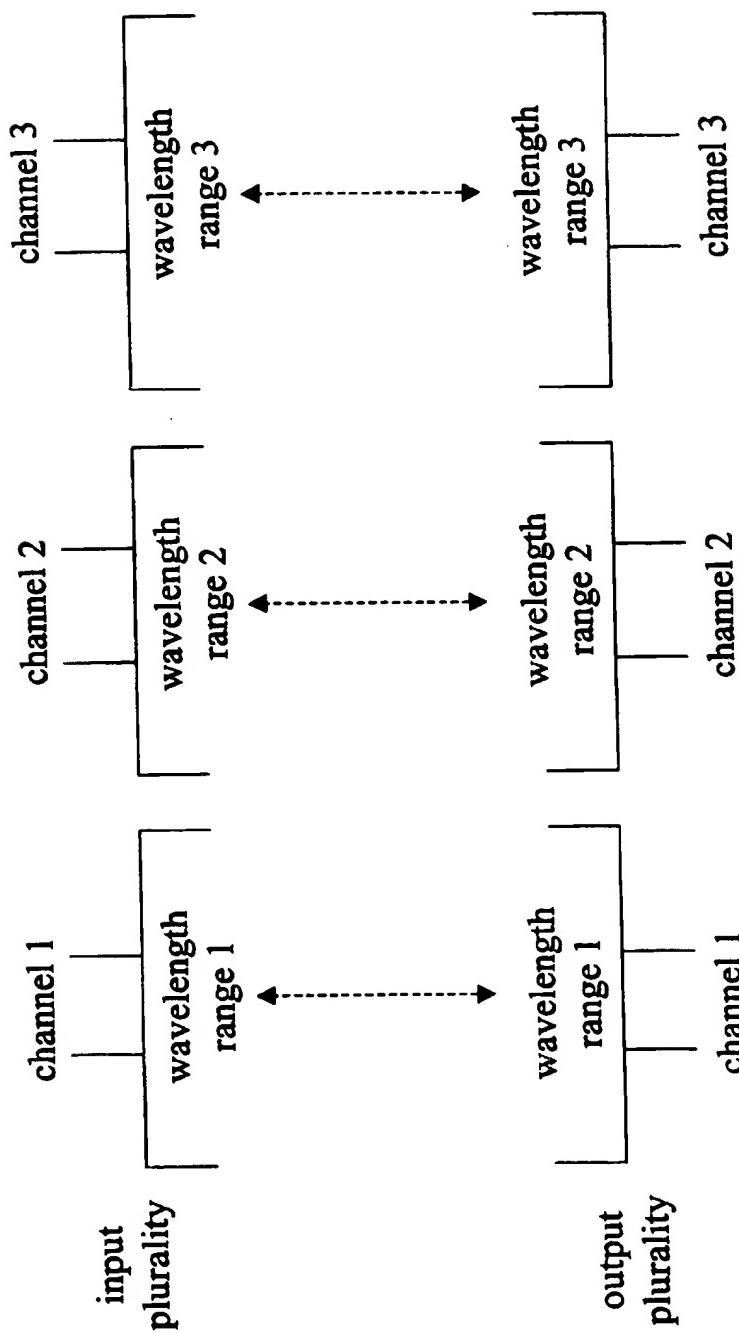
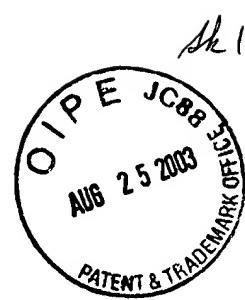


Figure 11b



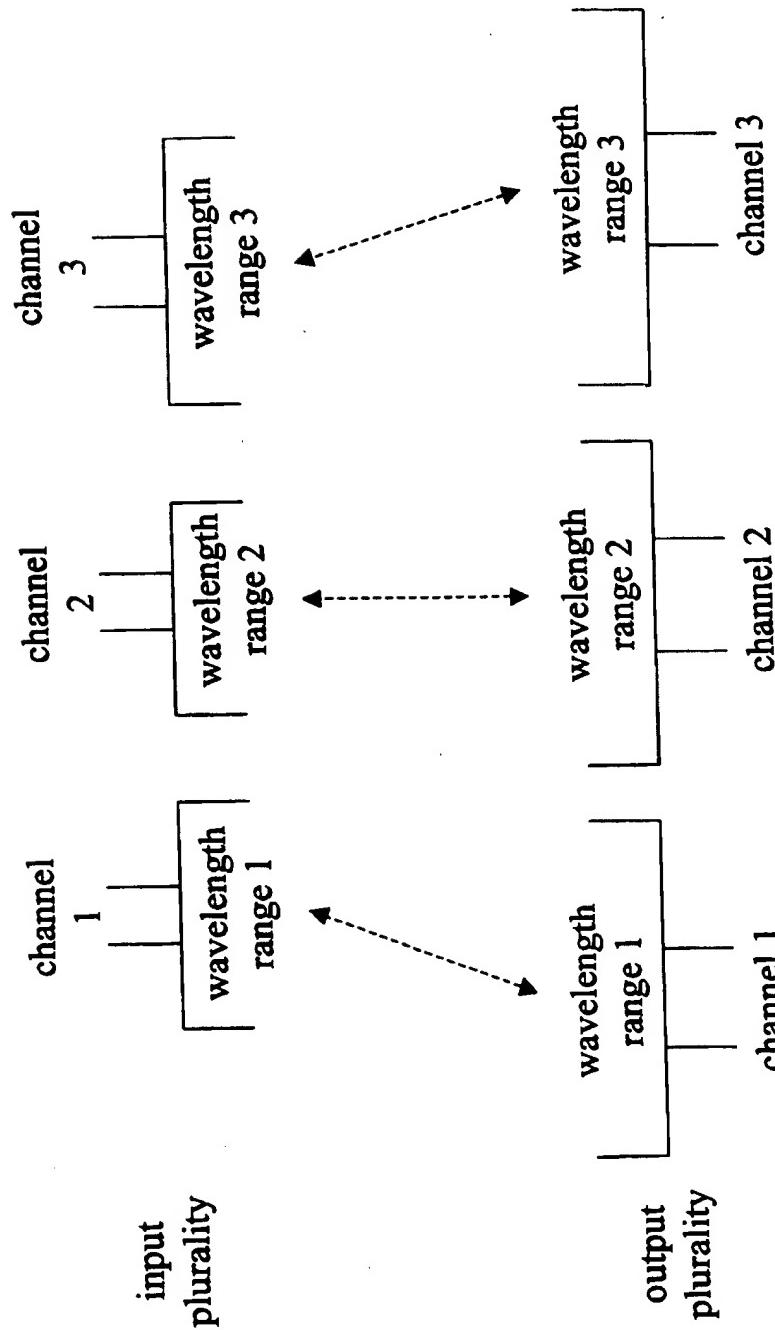


Figure 11c



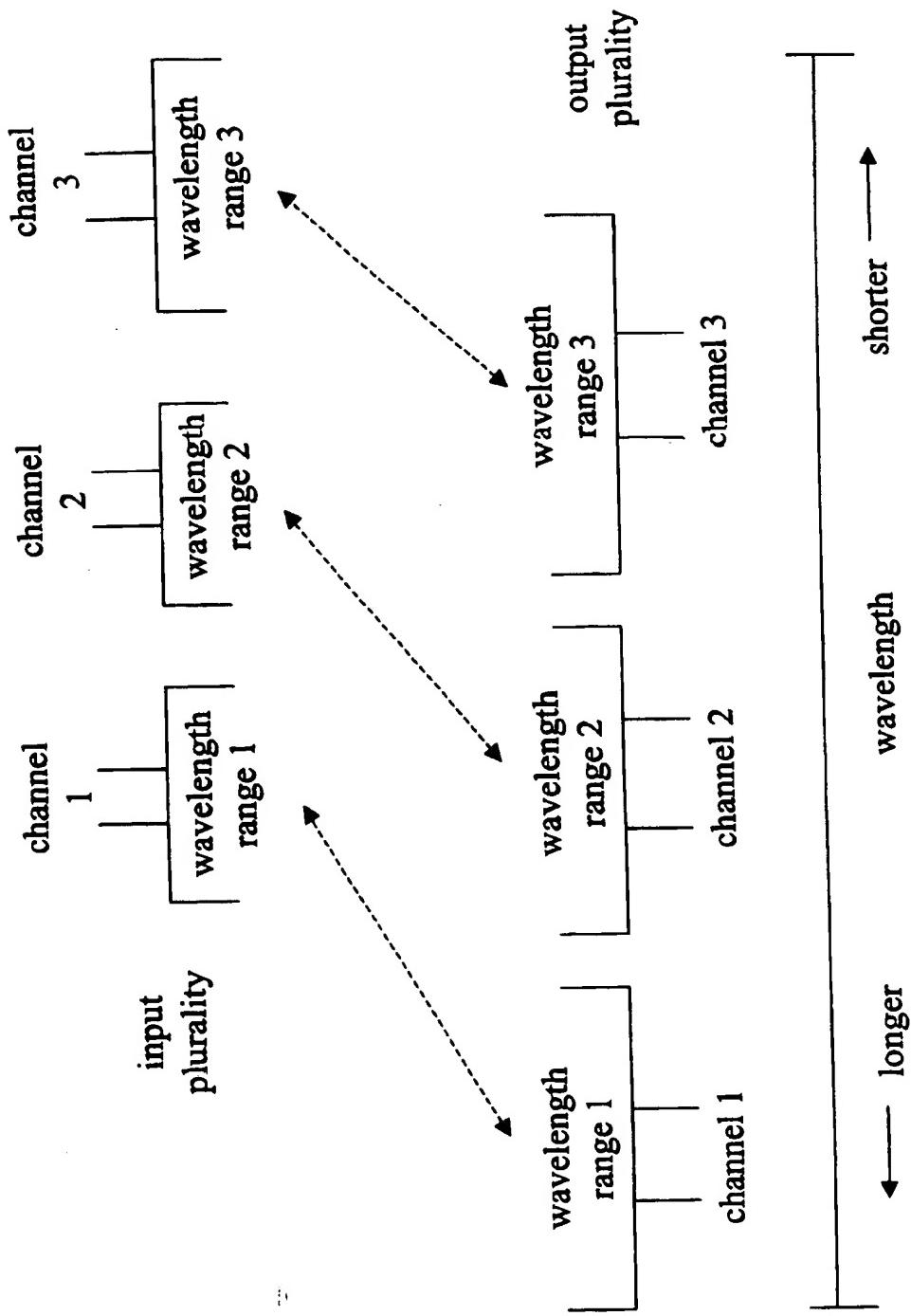


Figure 11d

